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(FILE 'HOME' ENTERED AT 11:59:11 ON 18 JAN 2008)

290 S L6 OR L7 OR L8 OR L9

2 DUP REM L11 (1 DUPLICATE REMOVED)

3 S L1 AND L10

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 11:59:37 ON 18 JAN 2008 L1 23 S AEQUOREA (W) COERULESCENS 17 S (GFP OR FLUORESCENT) AND L1 L2 8833323 S CLON? OR EXPRESS? OR RECOMBINANT L38 S L2 AND (MUTANT OR "222") L43 DUP REM L4 (5 DUPLICATES REMOVED) L5 E GURSKAYA N G/AU 79 S E3 L6 E FRADKOV A F/AU L7104 S E3 E LUKYANOV S A/AU 206 S E3 L8 E PUNKOVA N I/AU L9 6 S E3-E6

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         AUG 06
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         AUG 06
                 CA/CAplus enhanced with additional kind codes for granted
NEWS
         AUG 13
                 patents
                 CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS
      5
         AUG 20
                 Full-text patent databases enhanced with predefined
         AUG 27
NEWS
                 patent family display formats from INPADOCDB
                 USPATOLD now available on STN
         AUG 27
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                 CAS REGISTRY enhanced with additional experimental
NEWS
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                 spectral property data
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NEWS
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                 FORIS renamed to SOFIS
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         SEP 17
                 patents
                 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
         SEP 24
NEWS 14
                 CA/CAplus enhanced with pre-1907 records from Chemisches
         OCT 02
NEWS 15
                 Zentralblatt
                 BEILSTEIN updated with new compounds
         OCT 19
NEWS 16
                 Derwent Indian patent publication number format enhanced
NEWS 17
         NOV 15
                 WPIX enhanced with XML display format
NEWS 18
         NOV 19
                 ICSD reloaded with enhancements
NEWS 19
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                 LINPADOCDB now available on STN
NEWS 20 DEC 04
                 BEILSTEIN pricing structure to change
NEWS 21
        DEC 14
                 USPATOLD added to additional database clusters
NEWS 22
         DEC 17
                 IMSDRUGCONF removed from database clusters and STN
NEWS 23
         DEC 17
                 DGENE now includes more than 10 million sequences
NEWS 24
         DEC 17
                 TOXCENTER enhanced with 2008 MeSH vocabulary in
NEWS 25
         DEC 17
                 MEDLINE segment
                 MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
         DEC 17
NEWS 26
                 CA/CAplus enhanced with new custom IPC display formats
         DEC 17
NEWS 27
                 STN Viewer enhanced with full-text patent content
NEWS 28
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                 from USPATOLD
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NEWS EXPRESS
              CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.
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COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION

FULL ESTIMATED COST

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0.21

FILE 'MEDLINE' ENTERED AT 11:59:37 ON 18 JAN 2008

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FILE 'LIFESCI' ENTERED AT 11:59:37 ON 18 JAN 2008 COPYRIGHT (C) 2008 Cambridge Scientific Abstracts (CSA)

=> s aequorea (w) coerulescens L1 23 AEQUOREA (W) COERULESCENS

=> s (GFP or fluorescent) and l1 L2 17 (GFP OR FLUORESCENT) AND L1

=> clon? or express? or recombinant CLON? IS NOT A RECOGNIZED COMMAND The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> s clon? or express? or recombinant
L3 8833323 CLON? OR EXPRESS? OR RECOMBINANT

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PROCESSING COMPLETED FOR L4
L5 3 DUP REM L4 (5 DUPLICATES REMOVED)

=> d 1-3 ibib ab

L5 ANSWER 1 OF 3 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN

ACCESSION NUMBER: 2006-19750 BIOTECHDS

TITLE: Novel transgenic zebrafish that expresses Tau, amyloid

precursor protein or presenilin polypeptide or their fusion

polypeptides, or amyloid beta polypeptide, useful for

identifying modulator of Alzheimer's disease;

tau protein, amyloid precursor protein, amyloid-beta or presenilin gene transfer and expresion in zebrafish neuron

for zebrafish transgenic fish and drug screening

AUTHOR: RUBINSTEIN A L PATENT ASSIGNEE: ZYGOGEN LLC

PATENT INFO: WO 2006081539 3 Aug 2006 APPLICATION INFO: WO 2006-US3165 27 Jan 2006

PRIORITY INFO: US 2005-647493 27 Jan 2005; US 2005-647493 27 Jan 2005

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2006-539425 [55]

AB DERWENT ABSTRACT:

NOVELTY - A transgenic zebrafish that expresses (a) a tau polypeptide, amyloid precursor protein (APP), amyloid beta or presenilin polypeptide, comprising a zebrafish neuron specific expression sequence operably linked to a nucleic acid encoding a tau, APP, amyloid beta or presenilin polypeptide, which is expressed in the neurons of the transgenic zebrafish, where the transgenic zebrafish exhibits a pathology associated with Alzheimer's Disease, or (b) a tau, APP or presenilin fusion polypeptide, comprising a zebrafish neuron specific expression sequence operably linked to a nucleic acid encoding a fusion polypeptide comprising a tau, APP or presenilin polypeptide and a fluorescent reporter polypeptide, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for: 1) a transgenic zebrafish that expresses a Tau (fusion) polypeptide; 2) a transgenic zebrafish that expresses an APP (fusion) polypeptide; 3) a transgenic zebrafish that expresses an amyloid beta polypeptide; 4) a transgenic zebrafish that expresses a presentlin (fusion) polypeptide;

BIOTECHNOLOGY - Preferred Zebrafish: The zebrafish further comprises zebrafish neuron specific expression sequence operably linked to a nucleic acid encoding a fluorescent reporter polypeptide e.g. green fluorescent protein (GFP), Aequorea

green fluorescent protein (GFP), Aequorea coerulescens green fluorescent protein (AcGFP) and DsRedExpress (DsRed protein). The neuron specific expression sequence is a neuron-specific promoter chosen from an elav promoter and a GATA-2 promoter. The zebrafish neuron specific expression sequence and the sequence encoding the tau, APP, amyloid beta polypeptide are contained in an exogenous construct. The zebrafish develops neurofibrillary tangles, or exhibits neuronal cell damage. The tau, APP polypeptide, amyloid beta or presenilin is a mutant tau, APP, amyloid beta polypeptide or presentlin. The expression sequence comprises an inducible promoter, being an inducible UAS promoter activated by GAL4/VP16. The zebrafish further comprises a nucleic acid encoding a zinc transporter. Preferred Method: Identifying an agent that modulates a pathology associated with disease comprises: a) contacting the zebrafish with a test agent; b) comparing the neuronal pathology of the zebrafish contacted with the test agent to the neuronal pathology of a zebrafish not contacted with the test agent; c) determining the effect of the test agent on the zebrafish, such that if there is a difference in the neuronal pathology of the zebrafish contacted with the test agent and the zebrafish not contacted with the test agent, the test agent is an agent that modulates a

pathology associated with Alzheimer's disease. The difference in neuronal pathology is a decrease in neuronal cell death in the zebrafish contacted with the test agent as compared to the zebrafish not contacted with the test agent or a decrease in neurofibrillary tangles in the zebrafish contacted with the test agent as compared to the zebrafish not contacted with the test agent. The difference is neuronal pathology is a decrease in neuronal fluorescence. The difference in neuronal pathology is a decrease in protein expression in the zebrafish contacted with the test agent as compared to the zebrafish not contacted with the test agent. Identifying an agent that modulates neuronal pathology comprises: a) administering a test agent to a transgenic zebrafish expressing a reporter protein in neurons; b) comparing the expression of the reporter protein in the neurons of the zebrafish contacted with the test agent with the expression of the reporter protein in the neurons of a transgenic zebrafish that was not contacted with the test agent; and c) determining the effect of the test compound on the expression of the reporter protein in the neurons, such that if the number of neurons in the zebrafish contacted with the test agent is greater than the number of neurons in the zebrafish that was not contacted with the test agent, the test agent is an agent that modulates neuronal pathology and is a neuroproliferative agent. The reporter protein is a fluorescent reporter polypeptide.

ACTIVITY - Nootropic; Neuroprotective. No biological data given. MECHANISM OF ACTION - None given.

USE - For identifying an agent that modulates a pathology associated with Alzheimer's disease (claimed).

ADVANTAGE - The transgenic zebrafish enables identification of an agent that modulates a pathology associated with Alzheimer's disease. (75

ANSWER 2 OF 3 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN DUPLICATE 1

ACCESSION NUMBER: 2003-22532 BIOTECHDS

New nucleic acid molecule present in other than its natural TITLE:

environment and that encodes a fluorescent protein

from Aequorea coerulescens, useful for

various labeling applications;

involving vector-mediated gene transfer and expression in

host cell for use in labeling and biosensor GURSKAYA N; FRADLOV A; LUKYANOV S; PUNKOVA N

PATENT ASSIGNEE: EVROGEN JSC

WO 2003062270 31 Jul 2003 PATENT INFO: APPLICATION INFO: WO 2003-IB907 17 Jan 2003

PRIORITY INFO: US 2002-351518 22 Jan 2002; US 2002-351518 22 Jan 2002

DOCUMENT TYPE: Patent English LANGUAGE:

OTHER SOURCE: WPI: 2003-608187 [57]

DERWENT ABSTRACT:

AUTHOR:

NOVELTY - A nucleic acid molecule present in other than its natural environment and that encodes a fluorescent protein from Aequorea coerulescens, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following: (1) a construct comprising a vector and the above nucleic acid molecule; (2) an expression cassette comprising a transcriptional initiation region functional in an expression host, the above nucleic acid molecule, and a transcriptional termination region functional in the expression host; (3) a cell, or its progeny, comprising the expression cassette; (4) a method of producing a chromo- or fluorescent protein, comprising growing the cell cited above under conditions where the chromo- or fluorescent protein is expressed; (5) a protein or its fragment encoded by the above nucleic acid, or a protein or its fragment having a sequence similarity of at least about 95% to the above-mentioned protein or fragment; (6) a fusion protein incorporating the protein or fragment cited above; (7) an antibody binding specifically

to the above protein; (8) a transgenic organism comprising the above nucleic acid; and (9) a kit comprising the above nucleic acid and instructions for using the nucleic acid.

BIOTECHNOLOGY - Preferred Nucleic Acid: The nucleic acid is isolated. It encodes a fluorescent protein comprising any of the 12 amino acid sequences not clearly defined in the specification. The nucleic acid comprises a sequence that is substantially similar to or identical to a nucleotide sequence of at least 10 residues in length taken from any of the 12 nucleotide sequences not clearly defined in the specification. Alternatively, the nucleic acid has a sequence similarity of at least about 70% with any of the above-mentioned nucleotide sequences. Additionally, the nucleic acid encodes a mutant fluorescent protein comprising at least one point mutation or at least one deletion mutation as compared to a wild-type protein. The nucleic acid or its mimetic may hybridize under stringent conditions to a similar nucleic acid or its complements or fragments. Preferred Method: Producing a chromo- or fluorescent protein further comprises isolating the chromo- or fluorescent protein substantially free of other proteins. Preparation: The nucleic acid molecule was prepared using standard isolation techniques.

USE - The nucleic acid molecule and protein are useful in labeling applications, in fluorescence resonance energy transfer methods, or as biosensors in prokaryotic and eukaryotic cells. (76 pages)

L5 ANSWER 3 OF 3 MEDLINE on STN DUPLICATE 2

ACCESSION NUMBER: 2003313870 MEDLINE DOCUMENT NUMBER: PubMed ID: 12693991

TITLE: A colourless green fluorescent protein homologue

from the non-fluorescent hydromedusa

Aequorea coerulescens and its

fluorescent mutants.

AUTHOR: Gurskaya Nadya G; Fradkov Arkady F; Pounkova Natalia I;

Staroverov Dmitry B; Bulina Maria E; Yanushevich Yurii G; Labas Yulii A; Lukyanov Sergey; Lukyanov Konstantin A

CORPORATE SOURCE: Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry

RAS, Miklukho-Maklaya 16/10, Moscow 117997, Russia.

SOURCE: The Biochemical journal, (2003 Jul 15) Vol. 373, No. Pt 2,

pp. 403-8.

Journal code: 2984726R. ISSN: 0264-6021.

PUB. COUNTRY: England: United Kingdom DOCUMENT TYPE: (COMPARATIVE STUDY)

Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Priority Journals

OTHER SOURCE: GENBANK-AY151052; GENBANK-AY233272

ENTRY MONTH: 200308

ENTRY DATE: Entered STN: 8 Jul 2003

Last Updated on STN: 16 Aug 2003 Entered Medline: 15 Aug 2003

We have cloned an unusual colourless green fluorescent protein (GFP)-like protein from Aequorea coerulescens (acGFPL). The A. coerulescens specimens displayed blue (not green) luminescence, and no fluorescence was detected in these medusae. Escherichia coli expressing wild-type acGFPL showed neither fluorescence nor visible coloration. Random mutagenesis generated green fluorescent mutants of acGFPL, with the strongest emitters found to contain an Glu(222)-->Gly (E222G) substitution, which removed the evolutionarily invariant Glu(222). Re-introduction of Glu(222) into the most fluorescent random mutant, named aceGFP, converted it into a colourless protein. This colourless aceGFP-G222E protein demonstrated a novel type of UV-induced photoconversion, from an immature non-fluorescent form into a green fluorescent form.

Fluorescent aceGFP may be a useful biological tool, as it was able to be expressed in a number of mammalian cell lines. Furthermore, expression of a fusion protein of 'humanized' aceGFP and beta-actin produced a fluorescent pattern consistent with actin distribution in mammalian cells.

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             17 S (GFP OR FLUORESCENT) AND L1
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        8833323 S CLON? OR EXPRESS? OR RECOMBINANT
L3
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L12 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN
                          2003:591209 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                          139:129175
                          Sequences of novel fluorescent proteins from Aequorea
TITLE:
                          coerulscens and use
                          Gurskaya, Nadejda; Fradlov, Arkadiy; Lukyanov, Sergey;
INVENTOR(S):
                          Punkova, Natalia
                          Evrogen, Jsc, USA
PATENT ASSIGNEE(S):
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PCT Int. Appl., 76 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
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              PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
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PRIORITY APPLN. INFO.:
                                                                      W 20030117
                                                WO 2003-IB907
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The present invention provides protein and cDNA sequences of a novel AB colorless GFP-like protein, acGFP, from Aequorea coerulscens and fluorescent and non-fluorescent mutants and derivs. thereof, as well as peptides and proteins encoded by these nucleic acid compns. The subject protein and nucleic acid compns. of the present invention are colored and/or fluorescent and/or can be photoactivated, and can be used in a variety of different biol. applications, particularly for labeling. Finally, kits for use in such biol. applications are provided.

L12 ANSWER 2 OF 2 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights DUPLICATE 1 reserved on STN

ACCESSION NUMBER:

2003300328 EMBASE

TITLE:

A colourless green fluorescent protein homologue from the

non-fluorescent hydromedusa Aequorea coerulescens and its fluorescent mutants.

AUTHOR:

Gurskaya N.G.; Fradkov A.F.; Pounkova

N.I.; Staroverov D.B.; Bulina M.E.; Yanushevich Y.G.; Labas

Y.A.; Lukyanov S.; Lukyanov K.A.

CORPORATE SOURCE:

K.A. Lukyanov, Shemyakin/Ovchinnikov Inst. B.,

Miklukho-Maklaya 16/10, Moscow 117997, Russian Federation.

kluk@ibch.ru

SOURCE:

Biochemical Journal, (15 Jul 2003) Vol. 373, No. 2, pp.

403-408. Refs: 25

ISSN: 0264-6021 CODEN: BIJOAK

COUNTRY:

United Kingdom Journal; Article

DOCUMENT TYPE: FILE SEGMENT:

Clinical and Experimental Biochemistry 029

LANGUAGE:

English

SUMMARY LANGUAGE:

English

ENTRY DATE:

Entered STN: 14 Aug 2003

Last Updated on STN: 14 Aug 2003

We have cloned an unusual colourless green fluorescent protein (GFP)-like AB

protein from Aequorea coerulescens (acGFPL). The A. coerulescens specimens displayed blue (not green) luminescence, and no fluorescence was detected in these medusae. Escherichia coli expressing wild-type acGFPL showed neither fluorescence nor visible coloration. Random mutagenesis generated green fluorescent mutants of acGFPL, with the strongest emitters found to contain an Glu(222) → Gly (E222G) substitution, which removed the evolutionarily invariant Glu(222). Reintroduction of Glu(222) into the most fluorescent random mutant, named aceGFP, converted it into a colourless protein. This colourless aceGFP-G222E protein demonstrated a novel type of UV-induced photoconversion, from an immature non-fluorescent form into a green fluorescent form. Fluorescent aceGFP may be a useful biological tool, as it was able to be expressed in a number of mammalian cell lines. Furthermore, expression of a fusion protein of 'humanized' aceGFP and β-actin produced a fluorescent pattern consistent with actin distribution in mammalian cells.

### => d his

(FILE 'HOME' ENTERED AT 11:59:11 ON 18 JAN 2008)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 11:59:37 ON 18 JAN 2008
23 S AEQUOREA (W) COERULESCENS

L1 23 S AEQUOREA (W) COERULESCENS
L2 17 S (GFP OR FLUORESCENT) AND L1
L3 8833323 S CLON? OR EXPRESS? OR RECOMBINANT
L4 8 S L2 AND (MUTANT OR "222")

L5 3 DUP REM L4 (5 DUPLICATES REMOVED) E GURSKAYA N G/AU

L6 79 S E3 E FRADKOV A F/AU L7 104 S E3

E LUKYANOV S A/AU 206 S E3

L8 206 S E3 E PUNKOVA N I/AU

L9 6 S E3-E6. L10 290 S L6 OR L7 OR L8 OR L9

L11 3 S L1 AND L10

L12 2 DUP REM L11 (1 DUPLICATE REMOVED)

	Document ID	Kind Codes	Source	Issue Date	Pages
11	US 20070298412 Al	·	US- PGPUB	20071227	38
2	US 20060167225 A1		US- PGPUB	20060727	56

	Title
1	Fluorescent Proteins And Chromoproteins From Non- Aequorea Hydrozoa Species And Methods For Using Same
2	Novel fluorescent protein from aequorea coerulscens and methods for using the same

# **EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	· 12	aequorea adj coerulescens	US-PGPUB; USPAT	OR	OFF	2008/01/18 12:11
L2	2	(mutant or "222") same l1	US-PGPUB; USPAT	OR	OFF	2008/01/18 12:10
L3	337	LUKYANOV FRADKOV GURSKAYA	US-PGPUB; USPAT	OR	OFF	2008/01/18 12:18
L4	2	I1 and I3	US-PGPUB; USPAT	OR	OFF	2008/01/18 12:18

	Document ID	Kind Codes	Source	Issue Date	Pages
1	US 20070298412 A1		US- PGPUB	20071227	38
2	US 20070266458 A1		US- PGPUB	20071115	77
3	US 20070072267 A1 .		US- PGPUB	20070329	26
4	US 20070015229 A1		US- PGPUB	20070118	29
5	US 20060257886 A1		US- PGPUB	20061116	12
6	US 20060188890 A1		US- PGPUB	20060824	21
7	US 20060167225 A1	-	US- PGPUB	20060727	56
8	US 20050181453 A1		US- PGPUB	20050818	32
9	US 20050032132 A1		US- PGPUB	20050210	24
10	US 20040248208 A1		US- PGPUB	20041209	72
11	US 20040171067 A1		US- PGPUB	20040902	89
12	US 20040043490 A1 .		US - PGPUB	20040304	17

	Document ID	Kind Codes	Source	Issue Date	Pages
1	US 20060167225 A1	l	US- PGPUB	20060727	56
2	US 20050032132 A1		US- PGPUB	20050210	24

	Title
1	Novel fluorescent protein from aequorea coerulscens and methods for using the same
2	Cancer diagnostics

Attachment #4

GenCore version 6.2.1 Copyright (c) 1993 - 2008 Biocceleration Ltd.

OM protein - protein search, using sw model

Run on:

January 18, 2008, 11:27:26; Search time 1 Seconds

(without alignments)

0.057 Million cell updates/sec

Title:

US-10-501-629-2

Perfect score: 1209

Sequence:

1 MSKGAELFTGVVPILIELNG.....IYFEFVTAAAITHGMDELYK 238

Scoring table: PAM320

Gapop 1.0 , Gapext 0.1

Searched:

1 seqs, 238 residues

Scoring modix - Par 320 gap penalty - 1 1 gag size penalty -0.1

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

6919186.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result Query

Description Score Match Length DB ID 1165 96.4 238 1 US-09-967-301-3 Sequence 3, Appli

## ALIGNMENTS

## RESULT 1

US-09-967-301-3

- ; Sequence 3, Application US/09967301
- ; Patent No. 6919186
- ; GENERAL INFORMATION:
- ; APPLICANT: Stubbs, Simon L.
- APPLICANT: Jones, Anne E.
- ; APPLICANT: Michael, Nigel P.
- APPLICANT: Thomas, Nicholas
- ; TITLE OF INVENTION: Fluorescent Proteins
- ; FILE REFERENCE: PA0111

```
CURRENT APPLICATION NUMBER: US/09/967,301
  CURRENT FILING DATE: 2001-09-28
  PRIOR APPLICATION NUMBER: GB 0109858.1
  PRIOR FILING DATE: 2001-04-23
  NUMBER OF SEQ ID NOS: 19
  SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 3
   LENGTH: 238
   TYPE: PRT
   ORGANISM: Artificial Sequence
   FEATURE:
   OTHER INFORMATION: Description of Artificial Sequence: synthetic
   OTHER INFORMATION: protein
US-09-967-301-3
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 Query Match
 Best Local Similarity 91.2%; Pred. No. 0;
 Matches 217; Conservative 16; Mismatches
                                         5; Indels
                                                     0; Gaps
         1 MSKGAELFTGVVPILIELNGDVNGHKFSVSGEGEGDATYGKLTLKFICTTGKLPVPWPTL 60
Qу
           1 MSKGEELFTGVVPILVELDGDVNGHKFSVSGEGEGDATYGKLTLKFICTTGKLPVPWPTL 60
Db
         61 VTTFSYGVQCFSRYPDHMKQHDFFKSAMPEGYIQERTIFFKDDGNYKSRAEVKFEGDTLV 120
Qу
           61 VTTLSYGVQCFSRYPDHMKRHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTLV 120
Db
        121 NRIELTGTDFKEDGNILGNKMEYNYNAHNVYIMTDKAKNGIKVNFKIRHNIEDGSVQLAD 180
Qу
           121 NRIELKGIDFKEDGNILGHKLEYNYNSHNVYIMADKQKNGIKVNFKIRHNIEDGGVQLAD 180
        181 HYQQNTPIGDGPVLLPDNHYLSTQSTLSKDPNEKRDHMIYFEFVTAAAITHGMDELYK 238
Qу
           181 HYQQNTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMVLLGFVTAAGITHGMDELYK 238
Db
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Search completed: January 18, 2008, 11:27:26 Job time : 1 secs